







TECH CENTER 1600/2900

RAW SEQUENCE LISTING DATE: 05/29/2001 PATENT APPLICATION: US/09/714,882 TIME: 11:46:13

Input Set : A:\Seqlist.txt

Output Set: C:\CRF3\05292001\I714882.raw

ENTERED

					~ +1	, -		 	$N \vdash \vdash$	ハト
		<110>		ICANT: Turne		ander Jr.		Contract Con	. •	
	5			s, Michael (
	6			drich, Glenn						
	7			rowicz, Bria						
	8			s, Arthur T						
	10	<120>				Human Notch	Ligand Pro	ceins and Pol	lynucleoti	des
	11			ding the Sam						
				REFERENCE:						
				ENT APPLICAT			, 882			
C>				ENT FILING I						
				R APPLICATIO			59	•		
				R FILING DAT		-17		,		
				ER OF SEQ I						
				VARE: FastSI	EQ for Windo	ows Version	4.0			
				ID NO: 1						
				гн: 2070						
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				tcaaacaata					180	;
				gagaaaatct					240	
				ataaagatat					300	
								tctccagcag	360	
			-	aaaaacaaaa				-	420	
				aagctatgga					480	
				cagcagctat					540	
				cattaggatt					600	
				tatattacac					660	
				gatatttgtc					720	
				aagtggcaga					780	
			_	tgagactaac		-			840 900	
				tataccaata					960	
				gacaattaca					1020	
				acttcttaaa					1020	
				atttagaggg					1140	
				tggcagccag					1200	
				gaaaaggagt						
				aagggtggcc					1260 1320	
				ggaaggatta					1320	
				tcgccattta					1440	
				gaactgctgt					1500	
				tgacagctta						
								agcattcatt	, 1560 1620	
				aaaaggctaa					1680	
	55	clatge	yaatC	gagctgccat	ccaayycaat	geactigeta	yaytaaaaat	cygagactac	1000	

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56 cattactatg gctatgggac taagaaagac tatcaaacag cagccacaca ctacagcat 57 gcagccaaca aataccacaa cgcgcaagcc atgttcaatc tggcttatat gtatgaaca 58 ggcttaggca tcacaaagga cattcacttg gccagaagat tgtacgacat ggctgctca 59 acgagtccag atgcccacat acctgtgctc tttgccgtca tgaaactgga aactacgca 60 ttgctccggg atatcctgtt ttttaatcag ttcacaacga gatggaactg gctgaaact 61 gacaacacca ttggaccaca ctgggactta tttgtgattg gcctcattgt tcctgggct 62 attttgttgc ttagaaatca ccatgggtag 64 <210> SEQ ID NO: 2 65 <211> LENGTH: 689	ac 1800 aa 1860 at 1920 tg 1980
66 <212> TYPE: PRT	
67 <213> ORGANISM: Homo sapiens 69 <400> SEQUENCE: 2	
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72 Thr Ile Lys Thr Ile Lys Ala Glu Glu His Asn Lys Arg Gln Lys Glu 73 20 25 30	
74 Arg Asn Val Thr Thr Gln Val Ser Val Asn Glu Ile Lys Gln Tyr Leu 75 35 40 45	
76 Ser His Ile Leu Glu Gln Arg Thr Ser Ser Asn Val Ile Asn Lys Arg 77 50 55 60	
78 Glu Asn Leu Leu Glu Lys Lys Asn Gln Arg Lys Ile Arg Ile Lys	
79 65 70 75 80 80 Gly Ile Gln Asn Lys Asp Ile Leu Lys Arg Asn Lys Asn His Leu Gln	
81 85 90 95	
82 Lys Gln Ala Glu Lys Asn Phe Thr Asp Glu Gly Asp Gln Leu Phe Lys 83 100 105 110	·
84 Met Gly Ile Lys Val Leu Gln Gln Ser Lys Ser Gln Lys Gln Lys Glu 85 115 120 125	
86 Glu Ala Tyr Leu Leu Phe Ala Lys Ala Ala Asp Met Gly Asn Leu Lys 87 130 135 140	
88 Ala Met Glu Lys Met Ala Asp Ala Leu Leu Phe Gly Asn Phe Gly Val 89 145 150 155 160	
90 Gln Asn Ile Thr Ala Ala Ile Gln Leu Tyr Glu Ser Leu Ala Lys Glu	•
91 165 170 175	
92 Gly Ser Cys Lys Ala Gln Asn Ala Leu Gly Phe Leu Ser Ser Tyr Gly 93 180 185 190	
94 Ile Gly Met Glu Tyr Asp Gln Ala Lys Ala Leu Ile Tyr Tyr Thr Phe 95 200 205	
96 Gly Ser Ala Gly Gly Asn Met Met Ser Gln Met Ile Leu Gly'Tyr Arg	
97 210 215 220 98 Tyr Leu Ser Gly Ile Asn Val Leu Gln Asn Cys Glu Val Ala Leu Ser	
99 225 230 235 240	
100 Tyr Tyr Lys Lys Val Ala Asp Tyr Ile Ala Asp Thr Phe Glu Lys Sen	r
101 245 250 255 102 Glu Gly Val Pro Val Glu Lys Val Arg Leu Thr Glu Arg Pro Glu Ass	n
102 Gid Gig Val Pio Val Gid Lys Val Aig Led in Gid Aig 110 Gid Asi	r * .
104 Leu Ser Ser Asn Ser Glu Ile Leu Asp Trp Asp Ile Tyr Gln Tyr Tyr 105 275 280 285	r
106 Lys Phe Leu Ala Glu Arg Gly Asp Val Gln Ile Gln Val Ser Leu Gly	У

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107		290					295					300				
	Gln		His	Leu	Ile	Gly		Lys	Gly	Leu	Asp		Asp	Tyr	Tyr	Lys
	305					310	,	-	-		315		•	-	•	320
110	Ala	Leu	His	Tyr	Phe	Leu	Lys	Ala	Ala	Lys	Ala	Gly	Ser	Ala	Asn	Ala
111				_	325		_			330		_	•		335	
112	Met	Ala	Phe	Ile	Gly	Lys	Met	Tyr	Leu	Glu	Gly	Asn	Ala	Ala	Val	Pro
113				340					345					350		
114	Gln	Asn	Asn	Ala	Thr	Ala	Phe	Lys	Tyr	Phe	Ser	Met	Ala	Ala	Ser	Lys
115			355					360					365			
116	Gly	Asn	Ala	Ile	Gly	Leu	His	Gly	Leu	Gly	Leu	Leu	Tyr	Phe	His	Gly
117		370					375					380				
118	Lys	Gly	Val	Pro	Leu	Asn	Tyr	Ala	Glu	Ala	Leu	Lys	Tyr	Phe	Gln	Lys
	385					390					395					400
120	Ala	Ala	Glu	Lys	Gly	Trp	Pro	Asp	Ala	Gln	Phe	Gln	Leu	Gly	Phe	Met
121					405					410					415	
122	Tyr	Tyr	Ser		Ser	Gly	Ile	Trp		Asp	Tyr	Lys	Leu	Ala	Phe	Lys
123				420					425					430		
	Tyr	Phe		Leu	Ala	Ser	Gln		Gly	Gln	Pro	Leu		Ile	Tyr	Tyr
125			435					440		_		_	445			
	Leu		Lys	Met	Tyr	Ala		Gly	Thr	Gly	Val		Arg	Ser	Cys	Arg
127		450					455					460			_	
	Thr	Ala	Val	Glu	Leu	_	Lys	Gly	Val	Cys		Leu	GLy	His	Trp	
	465	_		_		470	_			_	475	_	- 1	_	1	480
	Glu	Lys	Phe	Leu		Ala	Tyr	Phe	Ala		ьуs	Asp	GLY	Asp		Asp
131		_	_	1	485	m	7. 7		-	490	0 3	M - 4-	01	m	495	17-1
	Ser	Ser	Leu		GIn	Tyr	Ата	Leu		Ala	Glu	мет	GTÀ		GLU	vaı
133	70.7	03	.	500	0	7.1	Dh.	T1-	505	C1	C	T	T	510	7 ~~	т1.
	Ala	GIN	515	ASI			rne	520	Leu	GIU	Set	гуз	ьуs 525	Ald	ASII	TIE
135	Leu	C1,,		C1,,	Lvc		Ттт		Mot	7112	Tou	Lan		ሞሥኮ	Aen	Δra
137	ьец	530	гуз	Gru	пуз	Mec	535	110	Mec	пта	пеп	540	пец	пр	N311	Arg
	Ala		Tla	Gln	Glv	Aen		Phe	Δla	Ara	Val		Tle	Glv	Asn	Tur
	545	ALG	110	0111	O L Y	550	111.0	1110	1114	**** 9	555	_,0	-10	011	пор	560
	His	Tvr	Tvr	Glv	Tur		Thr	Lvs	Lvs	Asp		Gln	Thr	Ala	Ala	
141		- y -	- <u>y</u> -	CLY	565	011		2,0	2,5	570	- 1 -				575	
	His	Tvr	Ser	Ile	Ala	Ala	Asn	Lvs	Tvr	His	Asn	Ala	Gln	Äla	Met	Phe
143		-1-		580				_	585					590		
	Asn	Leu	Ala		Met	Tyr	Glu	His	Gly	Leu	Gly	Ile	Thr	Lys	Asp	Ile
															-	
	His														Pro	Asp
147		610			_		615	_				620				
148	Ala	His	Ile	Pro	Val	Leu	Phe	Ala	Val	Met	Lys	Leu	Glu	Thr	Thr	His
149	625					630					635	*				640
150	Leu	Leu	Arg	Asp	Ile	Leu	Phe	Phe	Asn	Gln	Phe	Thr	Thr	Arg	Trp	Asn
151					645					650					655	
152	Trp	Leu	Lys	Leu	Asp	Asn	Thr	Ile		Pro	His	Trp	Asp	Leu	Phe	Val
153				660					665					670		
	Ile	Gly		Ile	Val	Pro	Gly		Ile	Leu	Leu	Leu		Asn	His	His
155			675					680					685			

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159 <210> SEQ ID NO: 3
160 <211> LENGTH: 2067
161 <212> TYPE: DNA
162 <213> ORGANISM: Homo sapiens
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                                                                           120
167 gtgaacgaaa tcaaacaata tttatcacac atattggaac aaagaacatc tagtaatgta
                                                                           180
168 atcaataaaa gagaaaatct cctggagaaa aagaagaatc aacgtaaaat aagaataaaa
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169 ggaattcaaa ataaagatat cttgaagaga aataagaatc atttacaaaa gcaagcagag
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170 aaaaatttta cagatgaagg agaccagcta tttaagatgg gcatcaaggt tctccagcag
                                                                           360
171 tctaaaagcc aaaaacaaaa agaagaagcc tacctacttt ttgccaaagc agctgacatg
                                                                           420
172 ggaaacttga aagctatgga gaaaatggct gacgctttgc tatttggaaa ttttggcgtg
                                                                           480
                                                                           540
173 caaaatataa cagcagctat ccaattatat gagtccttgg ctaaagaagg atcatgtaaa
                                                                           600
174 gcccaaaacg cattaggatt tttgtcttct tatggaatag gaatggaata tgatcaagct
175 aaggcactga tatattacac ctttggaagt gctggaggaa acatgatgtc ccagatgatt
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176 ttggggtaca gatatttgtc gggaatcaat gttctacaga attgtgaagt tgccctaagt
                                                                           720
                                                                           780
177 tattacaaqa aagtqqcaqa ttatattqct gacacatttg aaaaaagtga aggtgttcca
178 gtggaaaaag tgagactaac ggaaagacct gaaaatctga gttctaacag tgagattttg
                                                                           840
                                                                           900
179 gattgggaca tataccaata ctataaattt ttggcagaaa gaggagatgt tcagatacaa
                                                                           960
180 gtctctcttg gacaattaca tctaattggc aggaaaggtc tagatcagga ttactacaaa
                                                                          1020
181 gcattacact acttettaaa ggeageaaag geegggagtg caaatgeeat ggeatttata
                                                                          1080
182 ggaaagatgt atttagaggg gaatgctgcc gtgccgcaaa ataacgctac tgccttcaag
183 tacttttcca tggcagccag taagggcaat gcaatcggcc ttcatgggct tggtcttctt
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184 tactttcatg gaaaaggagt tcccctgaat tatgccraag cacttaaata ctttcagaaa
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185 gctgcggaaa aagggtggcc cgacgcacag ttccagttag gcttcatgta ctactctggc
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186 tctqqaatat qqaaqqatta taaacttgcc ttcaaatatt tttacctggc atctcagagt
                                                                          1320
187 gggcagcccc tcgccattta ttatctggcc aagatgtatg caacaggaac aggagtagta
                                                                          1380
188 agatcatgca gaactgctgt ggagctttat aaaggtgtct gtgaactagg ccactgggct
                                                                          1440
                                                                          1500
189 gagaaattcc tgacagctta ctttgcctat aaggatggtg atatagattc ttctcttgtt
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191 ttggaatcta aaaaggctaa cattcttgaa aaagagaaga tgtatccaat ggcgcttctc
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192 ctatggaatc gagctgccat tcaaggcaat gcatttgcta gagtaaaaat tggagattac
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193 cattactatg gctatgggac taagaaagac tatcaaacag cagccacaca ctacagcatt
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                                                                          1860
195 ggcttaggca tcacaaagga cattcacttg gccagaagat tgtacgacat ggctgctcaa
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196 acgagtecag atgeceacat acctgtgete tttgeegtea tgaaactgga aactaegeat
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197 ttgctccggg atatcctgtt ttttaatttc acaacgagat ggaactggct gaaactggac
198 aacaccattg gaccacactg ggacttattt gtgattggcc tcattgttcc tgggctgatt
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201 <210> SEQ ID NO: 4
202 <211> LENGTH: 688
203 <212> TYPE: PRT
204 <213> ORGANISM: Homo sapiens
206 <400> SEQUENCE: 4
207 Met Lys Pro Leu Ser Leu Leu Ile Glu Ile Leu Ile Ile Leu Gly Val
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209 Thr Ile Lys Thr Ile Lys Ala Glu Glu His Asn Lys Arg Gln Lys Glu
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210				20					25					30		
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214		50					55					60				
215	Glu	Asn	Leu	Leu	Glu	Lys	Lys	Lys	Asn	Gln	Arg	Lys	Ile	Arg	Ile	Lys
216						70					75					80
217	Gly	Ile	Gln	Asn	Lys	Asp	Ile	Leu	Lys	Arg	Asn	Lys	Asn	His	Leu	Gln
218					85					90					95	
	Lys	Gln	Ala		Lys	Asn	Phe	Thr		Glu	Gly	Asp	Gln		Phe	Lys
220				100		_			105	_	_		_	110	_	~ 3
	Met	Gly		Lys	Val	Leu	Gln		Ser	Lys	Ser	GIn		GIn	ьуs	GLu
222		* 1	115	-	-	D1		120	7.7	7.1	70	M = Li	125	70	.	*
	Glu		Tyr	Leu	Leu	Phe		ьуs	Ата	Ата	Asp		GTÀ	Asn	ьeu	гÀг
224	71.	130	C1	T	Mot	ת ז ה	135	71 7 -	Τ	т о	Dha	140	7.00	Dho	C1	11-1
	Ala	мес	GIU	гуѕ	мес	150	ASP	Ala	теп	ьeu	155	GTÀ	ASII	rne	сту	160
	145 Gln	Λcn	Tlo	Thr	λla		Tlo	Gln	Len	Ψих		Sar	T.011	Δla	Luc	
228	Gill	USII	116	1111	165	лια	116	OTII	пси	170	Oiu	JCI	·	,1±0	175	Olu
	Gly	Ser	Cvs	T.vs		Gln	Asn	Ala	Len		Phe	Len	Ser	Ser		Glv
230		501	O y O	180	1114	01	11011		185		11.0	200		190	- 1 -	011
	Ile	Glv	Met		Tvr	Asp	Gln	Ala		Ala	Leu	Ile	Tvr		Thr	Phe
232		1	195		- 1			200	-1				205	2		
	Gly	Ser		Gly	Gly	Asn	Met	Met	Ser	Gln	Met	Ile	Leu	Gly	Tyr	Arg
234	-	210		-	-		215					220			_	_
235	Tyr	Leu	Ser	Gly	Ile	Asn	Val	Leu	Gln	Asn	Cys	Glu	Val	Ala	Leu	Ser
236	225					230					235					240
237	Tyr	Tyr	Lys	Lys	Val	Ala	Asp	Tyr	Ile	Ala	Asp	Thr	Phe	Glu	Lys	Ser
238					245					250					255	
	Glu	Gly	Val		Val	Glu	Lys	Val		Leu	Thr	Glu	Arg		Glu	Asn
240	_	_	_	260	_			_	265	_	_		_	270	_	_
	Leu	Ser		Asn	Ser	Glu	Ile		Asp	Trp	Asp	TTe		GIn	Tyr	Tyr
242	T	DI	275	7.1.	C1	70	C1	280	17 n 1	C1-	т1.	C1 ~	285	Com	T 0	C1
	Lys		Leu	Ата	GIU	Arg	295	Asp	val	GIN	тте	300	vaı	ser	ьеu	GTÀ
244	Gln	290	ui c	Lou	Tlo	C1.,		Tuc	C1v	Lou	λαη		Λan	ጥህን	Тиг	Tue
	305	neu	птэ	Leu	116	310	Ary	туз	GIY	пеп	315	GIII	ASP	тут	тут	320
	Ala	Leu	Hie	ጥህን	Pho		Lvs	Δla	Δla	T.vs		Glv	Ser	Δla	Asn	
248	, Ala	пец	1113	тут	325				711 Q	330	1114	Ory	JCI	1114	335	7120
	Met	Ala	Phe	Tle			Met		Leu		Glv	Asn	Ala	Ala		Pro
250				340	0 -1	-1-		- 1 -	345		1			350		
	Gln	Asn	Asn		Thr	Ala	Phe	Lys		Phe	Ser	Met	Ala	Ala	Ser	Lys
252			355					360	-				365			-
	Gly	Asn	Ala	Ile	Gly	Leu	His	Gly	Leu	Gly	Leu	Leu	Tyr	Phe	His	Gly
254	_	370			_		375	_			•	380			_	
255	Lys	Gly	Val	Pro	Leu	Asn	Tyr	Ala	Glu	Ala	Leu	Lys	Tyr	Phe	Ġln	Lys
256	385					390					395					400
	Ala	Ala	Glu	Lys	_	Trp	Pro	Asp	Ala		Phe	Gln	Leu	Gly		Met
258					405					410					415	

VERIFICATION SUMMARY

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L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date